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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/095,032	06/10/1998	RONALD L. MOSGROVE	INPA.221	9175	
75	90 02/03/2003				
WILLIAM W. KIDD BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP 12400 WILSHIRE BOULEVARD SEVENTH FLOOR			EXAMINER		
			LEFKOWITZ, SUMATI		
LOS ANGELES, CA 90025			ART UNIT	PAPER NUMBER	

DATE MAILED: 02/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		Application No.	Applicant(s)	O			
		09/095,032	MOSGROVE, RONALD L	·•			
		Examiner	Art Unit				
		Sumati Lefkowitz	2189				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)⊠	Responsive to communication(s) filed on 17.J	anuary 2003 .					
2a)	This action is <b>FINAL</b> . 2b)⊠ Th	s action is non-final.					
3)	Since this application is in condition for allowa			ts is			
Dispositi	closed in accordance with the practice under a ion of Claims	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
4) Claim(s) 1-46 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-46</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	election requirement.					
	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
11)[]	Applicant may not request that any objection to the	- · ·					
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)							
2) Notic	te of References Cited (P10-892) te of Draftsperson's Patent Drawing Review (PT0-948) mation Disclosure Statement(s) (PT0-1449) Paper No(s)	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)	<u>.</u> .			

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#### DETAILED ACTION

1. Claims 1-46 are pending.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-12, 13-30, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawande et al., 6,219,697 (hereinafter Lawande).
- a. As to claims 1, 3-9, 13-21, 25-28, and 32, Lawande discloses a bus system comprising a dynamically configurable bus (i.e., IEEE 1394 serial bus), a first bus device on the bus at a first virtual address and a first physical address, a second bus device on the bus at a second virtual address and a second physical address, and a map of the first and second virtual addresses to the first and second physical addresses, respectively, encoded on a program storage medium (i.e., look-up table 198 in RAM 196), the map being accessible over the bus, wherein at least one of the first and second virtual addresses is a unique identifier (i.e., unchangeable network identifier) wherein the map resides on at least one of the first and second bus devices, wherein at least one of the first and second bus devices is a bus manager (i.e., network manager 190), wherein the bus manager comprises one of a workstation and a personal computer, wherein the map is stored on the bus manager, wherein the bus system implements a network, wherein at least one of the first

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and second bus devices is selected from the group comprising a printer, a plotter, a workstation, a personal computer, a video camera, and a magnetic tape drive, wherein the map is encoded as a structure from the group of an array, a doubly linked list, a tree, a table, and a file, that the bus is dynamically configurable, and that the mapping is performed only for the bus devices experiencing a configuration event (note abstract, Figures 6A-6C and 8, column 3, line 58 – column 4, line 17, column 4, lines 60-65, column 11, line 37 – column 16, line 40).

Lawande fails to disclose that the unique identifiers are guaranteed unique identifiers, but does disclose that other protocols besides the IP and IEEE 1394 protocols my be used when implementing the address resolution scheme disclosed by Lawande using a look-up table (note column 12, lines 11-28).

Examiner takes Official Notice (support for which may be found in Applicant's remarks of 1/17/03, on page 10, 3<sup>rd</sup> paragraph) that GUID is a well-known term in the industry for addresses that are unchangeable, are universally unique throughout the industry, and are typically hardwired into a device at the time of manufacture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of unchangeable GUIDs in the address resolution scheme of Lawande, since Lawande teaches that the address resolution scheme can be applied to other protocols besides IP and IEEE 1394 and since GUIDs are widely used in industry, thereby making the combination of Lawande and GUIDs compatible with the many systems which contain GUIDs.

b. As to claims 10, 22, and 30, Lawande fails to disclose that the map is bi-directional. Examiner takes Official Notice that bi-directional maps are well known in the art of

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address/id mapping.

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of a bi-directional map in the system of Lawande so as to provide more flexibility in accessing the map by allowing the data in the map to be indexed with more than one index.

c. As to claims 11, 12, 23, 24, and 29, Lawande fails to disclose that the bus includes a first dynamically configurable bus and a second dynamically configurable bus coupled by a bridge, but does disclose the mapping of virtual addresses to physical addresses is performed only for bus devices experiencing a configuration event.

Examiner takes Official Notice that computer/network systems with a hierarchy of IEEE 1394 buses coupled by bridges are well known in the art of computer/network systems.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have multiple IEEE 1394 buses coupled by a bridge in the system of Lawande so as to allow for the connection of additional IEEE 1394 devices on additional buses when the limits set by the IEEE 1394 standard have been reached.

- 4. Claims 2, 14, 31, and 33-46 and are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawande et al., 6,219,697 (hereinafter Lawande) in view of Fujimori et al., 5,978,854 (hereinafter Fujimori).
- a. As to claims 2, 14, and 31, Lawande fails to disclose that the map is distributed across a plurality of bus devices on the first bus.

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Fujimori discloses that the map is distributed across a plurality of bus devices on the first bus (note column 3, lines 1-35).

It would have been obvious to one of ordinary skill in the art at the time of the invention to distribute the map across a plurality of devices on the first bus, as Fujimori teaches, in the system of Lawande so as to relieve the typically used one device from the burden of keeping track of physical IDs and unique IDs.

b. As to claims 33-37, and 40-44, Lawande discloses a bus system comprising a dynamically configurable bus (i.e., IEEE 1394 serial bus), a first bus device on the bus at a first virtual address and a first physical address, a second bus device on the bus at a second virtual address and a second physical address, and a map of the first and second virtual addresses to the first and second physical addresses, respectively, encoded on a program storage medium (i.e., look-up table 198 in RAM 196), the map being accessible over the bus, wherein at least one of the first and second virtual addresses is a unique identifier (i.e., unchangeable network identifier) wherein the map resides on at least one of the first and second bus devices, wherein at least one of the first and second bus devices is a bus manager (i.e., network manager 190), wherein the bus manager comprises one of a workstation and a personal computer, wherein the map is stored on the bus manager, wherein the bus system implements a network, wherein at least one of the first and second bus devices is selected from the group comprising a printer, a plotter, a workstation, a personal computer, a video camera, and a magnetic tape drive, wherein the map is encoded as a structure from the group of an array, a doubly linked list, a tree, a table, and a file, that the bus is dynamically configurable, and that the mapping is performed only for the bus devices

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experiencing a configuration event (note abstract, Figures 6A-6C and 8, column 3, line 58 – column 4, line 17, column 4, lines 60-65, column 11, line 37 – column 16, line 40).

Lawande fails to disclose that the unique identifiers are guaranteed unique identifiers, but does disclose that other protocols besides the IP and IEEE 1394 protocols my be used when implementing the address resolution scheme disclosed by Lawande using a look-up table (note column 12, lines 11-28).

Examiner takes Official Notice (support for which may be found in Applicant's remarks of 1/17/03, on page 10, 3<sup>rd</sup> paragraph) that GUID is a well-known term in the industry for addresses that are unchangeable, are universally unique throughout the industry, and are typically hardwired into a device at the time of manufacture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of unchangeable GUIDs in the address resolution scheme of Lawande, since Lawande teaches that the address resolution scheme can be applied to other protocols besides IP and IEEE 1394 and since GUIDs are widely used in industry, thereby making the combination of Lawande and GUIDs compatible with the many systems which contain GUIDs.

Lawande fails to disclose that the map is distributed across a plurality of bus devices on the first bus.

Fujimori discloses that the map is distributed across a plurality of bus devices on the first bus (note column 3, lines 1-35).

It would have been obvious to one of ordinary skill in the art at the time of the invention to distribute the map across a plurality of devices on the first bus, as Fujimori teaches, in the system

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of Lawande so as to relieve the typically used one device from the burden of keeping track of physical IDs and unique IDs.

c. As to claims 38 and 45, Lawande fails to disclose that the map is bi-directional.

Examiner takes Official Notice that bi-directional maps are well known in the art of address/id mapping.

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of a bi-directional map in the system of Lawande so as to provide more flexibility in accessing the map by allowing the data in the map to be indexed with more than one index.

d. As to claims 39 and 46, Lawande fails to disclose that the bus includes a first dynamically configurable bus and a second dynamically configurable bus coupled by a bridge, but does disclose the mapping of virtual addresses to physical addresses is performed only for bus devices experiencing a configuration event.

Examiner takes Official Notice that computer/network systems with a hierarchy of IEEE 1394 buses coupled by bridges are well known in the art of computer/network systems.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have multiple IEEE 1394 buses coupled by a bridge in the system of Lawande so as to allow for the connection of additional IEEE 1394 devices on additional buses when the limits set by the IEEE 1394 standard have been reached.

## Response to Arguments

5. Applicant's arguments with respect to the claims have been considered but are moot in

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view of the new ground(s) of rejection.

### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumati Lefkowitz whose telephone number is 703-308-7790. The examiner can normally be reached on Monday-Friday from 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart, can be reached at 703-305-4815.

The fax phone numbers for the organization where this application or proceeding is assigned are:

703-746-7238	for After-Final communications
703-746-7239	for Official communications

703-746-7240 for Non-Official/Draft communications

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Sumati Lefkowitz Primary Examiner Art Unit 2181

Sumati reflicut

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January 29, 2003